OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION

ATTACHMENT 20 (SEDIMENTATION POND/IMPOUNDMENT DATA SHEET)

Applicant's Name American Energy Corporation Pond # 15					# <u>15</u>
Тур	e of	impoundment <u>Excavated</u>	Permanent	Temporar	y <u>X</u>
1.	PON	D DRAINAGE AREA DATA:			
	a) b) c) d) e) f)	Drainage area 6.9 acr Disturbed area 4.6 acr Ave. land slope 20 % Hydrologic soil group C Hydraulic length 943 ft. Cover/condition of the undist	es –	sture/Fair	
2.	DESIGN STORM CRITERIA:				
	a)	Method:			
		 Design method (s) inc SCS curve number 			EDCAD 4.0
	b)	Rainfall Amount/Peak Flow	Rainfal	l,in. Peak f	low, cfs.
		<pre>1) 10 year, 24 hour = 2) 25 year, 24 hour = 3) 50 year, 6 hour = (if permanent) 4) 100 year, 6 hour = (if 20/20 size)</pre>	3.4.		15.0 17.8
3.	PON	D SIZE:			
	a)	Dimensions: N/A Excavated Pon	đ		
	2	Dam height ft. 4) Dam width ft.(MIN) 5) Dam length ft. 6)	Dam upstrea	m slope %	(XAM)
	b)	Sediment storage volume 1.62 foot elevation.	2 ac.ft. is pr	covided below the	e <u>1147.8</u>
	c)	Stage/Area Data:	Elevation ft.	Surface Area ac.	Volume ac. ft.
	2	2	1138.0 N/A 1147.8 1149.6 1152.0	0.03 N/A 0.29 0.33 0.40	0 N/A 1.62 2.20 3.06

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4.	PRINCIPAL SPILLWAY: a) Pipe length 52 ft.
	b) Pipe diameter 12 in. c) Pipe slope 1.54 %
	c) Pipe slope <u>1.54 </u>
	e) Riser height <u>n/a</u> ft.
	f) Type of hime PVC
	g) Number of anti-seep collars; spacing along pipe ft. h) Does the design include a trash rack?x Yes, No.
	i) Does the design include an anti-vortex device? Yes, x No.
5.	EMERGENCY SPILLWAY/EXIT CHANNEL:
	a) Base width 12 ft. b) Design flow depth 0.7 ft. Depth in level section 0.2 ft.
	c) Exit slope 24.1 %
	d) Exit velocity 3.7 fps e) Channel lining Vegetative Grass Mix
	f) Side slopes 2:1
	g) Freeboard 2.2 ft.
	h) Entrance slope <u>50.0</u> % i) Length of level section 20 ft.
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6.	The minimum static factor of safety for this impoundment is
7.	Provide as an addendum to this attachment a detailed plan view or 2 cross sections of the impoundment.
8.	COMMENTS
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9.	Is this an MSHA structure? Yes, X No. If "yes," provide the MSHA ID. number if one has been assigned
10.	If this is to be retained as a permanent impoundment, submit an addendum
	to this attachment demonstrating compliance with rule 1501:13-9-04(H) (2) of the Administrative Code.
11.	I hereby certify that this impoundment is designed to comply with the
	applicable requirements of rule 1501:13-9-04 of the Administrative Code using current, prudent engineering practices.
	using current, prudent engineering practices.
	Il Main Surley 28 Nov 2001
	Signature Date
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	William Wall